

InsuCrete 209

High performance, retarding plasticiser for concrete.

DESCRIPTION OF PRODUCT

InsuCrete 209 is a high performance, plasticising retarder beneficial in maintaining workability especially in high ambient temperatures.

PRIMARY USES

- Of particular value for ready-mixed concrete where high workability retention and retardation are of prime importance.
- Hot weather concreting of all types.
- Reduction in permeability, reducing effect of groundwater salts on concrete and steel.
- To improve cohesion, workability and compatibility in concretes using poorly graded/shaped fine aggregates.

TYPICAL APPLICATIONS

In hot weather concreting where delays to initial and final set are important and where maximum slump retention is of concern - such as site-batched, pre-cast, and ready-mixed concretes.

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ADVANTAGES

- Considerably improves the cohesion of concrete, reducing segregation and bleed water.
- Of particular use where fine aggregates of poor grading and particle shape are evident.
- Reduces placing problems in hot weather, through improved workability and workability retention.
- Improved surface finish.
- Improved trowellability.
- Reduces honeycombing/cold joint effects.
- Improves pumpability of concrete.
- Reduces effects of various modes of attack on concrete and embedded steel through considerable reduction in permeability.

PACKAGING

InsuCrete 209 is available in 1000 ltr bulk.

COMPATIBILITY

InsuCrete 209 can be used with all types of Portland cement including SRC. For use with other Special cements, contact Insumat's Technical Services Department.

InsuCrete 209 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing **InsuCrete 209**, they must be dispensed separately.

ACTION

InsuCrete 209 acts efficiently on cement particles by combining the effects of a powerful plasticising and deflocculating agent and retarder.

STANDARDS

ASTM C- 494 Type B and D
BS 5075 Part 1

TYPICAL PROPERTIES

Colour:	Dark brown liquid
Specific gravity:	(1.185 ± 0.01) at 25° C
Air-entrainment:	0-1% depending on dosage rate
Chloride content:	Nil to BS 5075:1982
Nitrate content:	Nil
Freezing point:	0°C; can be reconstituted if stirred after thawing
Flashpoint:	None

DIRECTIONS FOR USE

InsuCrete 209 Optimum performance is achieved when the admixture is added to the mixing water. Never add **InsuCrete 209** to dry cement. No extension to normal mixing time is necessary.

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DOSAGE

Trials should be conducted to determine the optimum addition rates of **InsuCrete 209** depending on mix design proposed and mix performance requirements.

As a general guide to these trials, a dosage range of 0.2-0.56ltr/100kg of cement is recommended as a starting point.

Depending on the desired properties, a dosage of up to 800ml/100kg of cement can be used.

SETTING

InsuCrete 209 acts efficiently to give controlled retardation of initial set. Setting times of concrete mixes are related to cement type and ambient temperatures.

EFFECTS OF OVER DOSAGE

A severe over dosage of **InsuCrete 209** will result in the following:

- Retardation of initial and final set.
- Slight increase in air-entrainment.
- Increase in workability.

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete. The retarding effects of very high dosages will be exaggerated with SRC.

DISPENSING

InsuCrete 209 should be dispensed through a proprietary dispenser, such as is available from Insumat.

SPECIFICATION CLAUSE

InsuCrete 209, a retarding and plasticising concrete admixture manufactured by Insumat or similar approved, to the following specification:

InsuCrete 209 is to be used in all concrete at a dosage range of 200ml to 560ml/100kg of cement in accordance with the manufacturer's instructions. Specific gravity 1.185 ± 0.01 Complying with specification type: ASTM C-494 Types B and D and BS 5075 Part 1

Composition: High molecular weight refined lignosulphonates and synthetic retarders.

STORAGE

Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is up to 2 years when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advices consult Insumat's Technical Services Dept.

SAFETY PRECAUTIONS

InsuCrete 209 is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information, refer to the material safety data sheet.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact Insumat's representative.

Insumat reserves the right to have the true cause of any difficulty determined by accepted test methods.

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QUALITY STATEMENT

All products manufactured by Insumat Egypt, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, standard.

* Properties listed are based on laboratory controlled tests.

Actual measured data may vary due to circumstances beyond Insumat's control.



Manufacturing Insulating Materials and Products Company

Founded by
Osman Ahmed Osman
1974

☎ 011 1974 1974
📍 Plot 83 El Motawereen - El Sadat City - Menofia
✉ info@insumat.com
🌐 www.insumat.com